

Wei-Cai Yang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7301579/publications.pdf>

Version: 2024-02-01

87
papers

7,237
citations

57758

44
h-index

58581

82
g-index

90
all docs

90
docs citations

90
times ranked

7849
citing authors

#	ARTICLE	IF	CITATIONS
1	The FERONIA Receptor-like Kinase Mediates Male-Female Interactions During Pollen Tube Reception. <i>Science</i> , 2007, 317, 656-660.	12.6	596
2	VANGUARD1 Encodes a Pectin Methylsterase That Enhances Pollen Tube Growth in the Arabidopsis Style and Transmitting Tract. <i>Plant Cell</i> , 2005, 17, 584-596.	6.6	386
3	High-Efficiency Genome Editing in Arabidopsis Using YAO Promoter-Driven CRISPR/Cas9 System. <i>Molecular Plant</i> , 2015, 8, 1820-1823.	8.3	349
4	The Cotton ACTIN1 Gene Is Functionally Expressed in Fibers and Participates in Fiber Elongation. <i>Plant Cell</i> , 2005, 17, 859-875.	6.6	330
5	TAPETUM DETERMINANT1 Is Required for Cell Specialization in the Arabidopsis Anther. <i>Plant Cell</i> , 2003, 15, 2792-2804.	6.6	305
6	Strigolactone Biosynthesis in <i>Medicago truncatula</i> and Rice Requires the Symbiotic GRAS-Type Transcription Factors NSP1 and NSP2. <i>Plant Cell</i> , 2011, 23, 3853-3865.	6.6	291
7	Analysis of Flanking Sequences from Dissociation/Insertion Lines: A Database for Reverse Genetics in Arabidopsis. <i>Plant Cell</i> , 1999, 11, 2263-2270.	6.6	287
8	Comparative genomics of the nonlegume <i>Parasponia</i> reveals insights into evolution of nitrogen-fixing rhizobium symbioses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4700-E4709.	7.1	253
9	Characterization of GmENOD40, a gene showing novel patterns of cell-specific expression during soybean nodule development. <i>Plant Journal</i> , 1993, 3, 573-585.	5.7	224
10	Allosteric receptor activation by the plant peptide hormone phytosulfofokine. <i>Nature</i> , 2015, 525, 265-268.	27.8	192
11	A receptor heteromer mediates the male perception of female attractants in plants. <i>Nature</i> , 2016, 531, 241-244.	27.8	190
12	New Insights into 5hmC DNA Modification: Generation, Distribution and Function. <i>Frontiers in Genetics</i> , 2017, 8, 100.	2.3	166
13	SLOW WALKER1, Essential for Gametogenesis in Arabidopsis, Encodes a WD40 Protein Involved in 18S Ribosomal RNA Biogenesis. <i>Plant Cell</i> , 2005, 17, 2340-2354.	6.6	163
14	The Central Cell Plays a Critical Role in Pollen Tube Guidance in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2007, 19, 3563-3577.	6.6	163
15	Female Gametophyte Development in Flowering Plants. <i>Annual Review of Plant Biology</i> , 2010, 61, 89-108.	18.7	159
16	The R2R3 MYB Transcription Factor GhMYB109 Is Required for Cotton Fiber Development. <i>Genetics</i> , 2008, 180, 811-820.	2.9	156
17	Targeted Degradation of the Cyclin-Dependent Kinase Inhibitor ICK4/KRP6 by RING-Type E3 Ligases Is Essential for Mitotic Cell Cycle Progression during <i>Arabidopsis</i> Gametogenesis. <i>Plant Cell</i> , 2008, 20, 1538-1554.	6.6	142
18	<i>Arabidopsis</i> GLUTAMINE-RICH PROTEIN23 Is Essential for Early Embryogenesis and Encodes a Novel Nuclear PPR Motif Protein That Interacts with RNA Polymerase II Subunit III. <i>Plant Cell</i> , 2006, 18, 815-830.	6.6	139

#	ARTICLE	IF	CITATIONS
19	<i>Arabidopsis</i> Histidine Kinase CK11 Acts Upstream of HISTIDINE PHOSPHOTRANSFER PROTEINS to Regulate Female Gametophyte Development and Vegetative Growth. <i>Plant Cell</i> , 2010, 22, 1232-1248.	6.6	127
20	The strigolactone biosynthesis gene DWARF27 is co-opted in rhizobium symbiosis. <i>BMC Plant Biology</i> , 2015, 15, 260.	3.6	118
21	Small RNA Profiling in Two <i>Brassica napus</i> Cultivars Identifies MicroRNAs with Oil Production- and Development-Related Expression and New Small RNA Classes. <i>Plant Physiology</i> , 2012, 158, 813-823.	4.8	111
22	Overexpression of TAPETUM DETERMINANT1 Alters the Cell Fates in the Arabidopsis Carpel and Tapetum via Genetic Interaction with EXCESS MICROSPOROXYTES1/EXTRA SPOROGENOUS CELLS. <i>Plant Physiology</i> , 2005, 139, 186-191.	4.8	107
23	Transcriptome Analysis Reveals Crosstalk of Responsive Genes to Multiple Abiotic Stresses in Cotton (<i>Gossypium hirsutum</i> L.). <i>PLoS ONE</i> , 2013, 8, e80218.	2.5	105
24	Genetics of gametophyte biogenesis in Arabidopsis. <i>Current Opinion in Plant Biology</i> , 2000, 3, 53-57.	7.1	102
25	OsLG3 contributing to rice grain length and yield was mined by Ho-LAMap. <i>BMC Biology</i> , 2017, 15, 28.	3.8	100
26	Gametophytic Pollen Tube Guidance: Attractant Peptides, Gametic Controls, and Receptors. <i>Plant Physiology</i> , 2017, 173, 112-121.	4.8	100
27	Conserved miRNA analysis in <i>Gossypium hirsutum</i> through small RNA sequencing. <i>Genomics</i> , 2009, 94, 263-268.	2.9	79
28	The Arabidopsis Receptor Kinase ZAR1 Is Required for Zygote Asymmetric Division and Its Daughter Cell Fate. <i>PLoS Genetics</i> , 2016, 12, e1005933.	3.5	72
29	POD1 Regulates Pollen Tube Guidance in Response to Micropylar Female Signaling and Acts in Early Embryo Patterning in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011, 23, 3288-3302.	6.6	71
30	Ovule development in Arabidopsis: progress and challenge. <i>Current Opinion in Plant Biology</i> , 2011, 14, 74-80.	7.1	66
31	Gnp4/LAX2, a RAWUL protein, interferes with the OsIAA3-OsARF25 interaction to regulate grain length via the auxin signaling pathway in rice. <i>Journal of Experimental Botany</i> , 2018, 69, 4723-4737.	4.8	62
32	YAO is a nucleolar WD40-repeat protein critical for embryogenesis and gametogenesis in Arabidopsis. <i>BMC Plant Biology</i> , 2010, 10, 169.	3.6	60
33	<i>SLOW WALKER2</i> , a NOC1/MAK21 Homologue, Is Essential for Coordinated Cell Cycle Progression during Female Gametophyte Development in Arabidopsis. <i>Plant Physiology</i> , 2009, 151, 1486-1497.	4.8	59
34	In-situ localization of chalcone synthase mRNA in pea root nodule development. <i>Plant Journal</i> , 1992, 2, 143-151.	5.7	58
35	Early nodulin gene expression during Nod factor-induced processes in <i>Vicia sativa</i> . <i>Plant Journal</i> , 1995, 8, 111-119.	5.7	57
36	RPA, a Class II ARFGAP Protein, Activates ARF1 and U5 and Plays a Role in Root Hair Development in Arabidopsis. <i>Plant Physiology</i> , 2006, 141, 966-976.	4.8	56

#	ARTICLE	IF	CITATIONS
37	Integration of ovular signals and exocytosis of a Ca ²⁺ channel by MLOs in pollen tube guidance. <i>Nature Plants</i> , 2020, 6, 143-153.	9.3	56
38	The root epidermis-specific pea gene RH2 is homologous to a pathogenesis-related gene. <i>Plant Molecular Biology</i> , 1994, 26, 39-50.	3.9	55
39	VsENOD5, VsENOD12 and VsENOD40 expression during Rhizobium-induced nodule formation on <i>Vicia sativa</i> roots. <i>Plant Molecular Biology</i> , 1995, 28, 1111-1119.	3.9	54
40	Arabidopsis CBP1 Is a Novel Regulator of Transcription Initiation in Central Cell-Mediated Pollen Tube Guidance. <i>Plant Cell</i> , 2015, 27, 2880-2893.	6.6	54
41	Title is missing!. <i>Plant and Soil</i> , 2001, 230, 1-8.	3.7	53
42	<i>SLOW WALKER3</i> , Encoding a Putative DEAD-box RNA Helicase, is Essential for Female Gametogenesis in <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , 2010, 52, 817-828.	8.5	50
43	The Arabidopsis alkaline ceramidase TOD1 is a key turgor pressure regulator in plant cells. <i>Nature Communications</i> , 2015, 6, 6030.	12.8	49
44	Comparison of soybean and pea ENOD40 cDNA clones representing genes expressed during both early and late stages of nodule development. <i>Plant Molecular Biology</i> , 1994, 26, 487-493.	3.9	48
45	<i>GAMETOPHYTIC FACTOR 1</i> , Involved in Pre-mRNA Splicing, Is Essential for Megagametogenesis and Embryogenesis in <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , 2009, 51, 261-271.	8.5	48
46	Anthocyanin accumulation enhanced in Lc-transgenic cotton under light and increased resistance to bollworm. <i>Plant Biotechnology Reports</i> , 2016, 10, 1-11.	1.5	46
47	The functions of kinesin and kinesin-related proteins in eukaryotes. <i>Cell Adhesion and Migration</i> , 2020, 14, 139-152.	2.7	46
48	<i>Arabidopsis</i> DAYU/ABERRANT PEROXISOME MORPHOLOGY9 Is a Key Regulator of Peroxisome Biogenesis and Plays Critical Roles during Pollen Maturation and Germination in <i>Planta</i> . <i>Plant Cell</i> , 2014, 26, 619-635.	6.6	41
49	Characterization, expression and phylogenetic study of R2R3-MYB genes in orchid. <i>Plant Molecular Biology</i> , 2003, 51, 959-972.	3.9	38
50	SPOROCTELESS Is a Novel Embryophyte-Specific Transcription Repressor that Interacts with TPL and TCP Proteins in <i>Arabidopsis</i> . <i>Journal of Genetics and Genomics</i> , 2014, 41, 617-625.	3.9	38
51	Transgenic expression of DwMYB2 impairs iron transport from root to shoot in <i>Arabidopsis thaliana</i> . <i>Cell Research</i> , 2006, 16, 830-840.	12.0	32
52	The integration of G ¹ 2 and MAPK signaling cascade in zygote development. <i>Scientific Reports</i> , 2017, 7, 8732.	3.3	32
53	Multilayered signaling pathways for pollen tube growth and guidance. <i>Plant Reproduction</i> , 2018, 31, 31-41.	2.2	32
54	TICKET attracts pollen tubes and mediates reproductive isolation between relative species in Brassicaceae. <i>Science China Life Sciences</i> , 2019, 62, 1413-1419.	4.9	31

#	ARTICLE	IF	CITATIONS
55	RLKs orchestrate the signaling in plant male-female interaction. <i>Science China Life Sciences</i> , 2016, 59, 867-877.	4.9	28
56	PINOID regulates floral organ development by modulating auxin transport and interacts with MADS16 in rice. <i>Plant Biotechnology Journal</i> , 2020, 18, 1778-1795.	8.3	28
57	BLOS1, a putative BLOC-1 subunit, interacts with SNX1 and modulates root growth in Arabidopsis. <i>Journal of Cell Science</i> , 2010, 123, 3727-3733.	2.0	27
58	Cloning of Ln Gene Through Combined Approach of Map-based Cloning and Association Study in Soybean. <i>Journal of Genetics and Genomics</i> , 2013, 40, 93-96.	3.9	27
59	Golgi-localized LOT regulates trans-Golgi network biogenesis and pollen tube growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12307-12312.	7.1	27
60	A Single Nucleotide Deletion in Gibberellin20-oxidase1 Causes Alpine Dwarfism in Arabidopsis. <i>Plant Physiology</i> , 2015, 168, 930-937.	4.8	22
61	Maternal control of suspensor programmed cell death via gibberellin signaling. <i>Nature Communications</i> , 2019, 10, 3484.	12.8	21
62	GAMETOPHYTE DEFECTIVE 1, a Putative Subunit of RNases P/MRP, Is Essential for Female Gametogenesis and Male Competence in Arabidopsis. <i>PLoS ONE</i> , 2012, 7, e33595.	2.5	20
63	Arabidopsis RAN1 Mediates Seed Development through Its Parental Ratio by Affecting the Onset of Endosperm Cellularization. <i>Molecular Plant</i> , 2014, 7, 1316-1328.	8.3	20
64	Plasma membrane H ⁺ ATPases-mediated cytosolic proton gradient regulates pollen tube growth. <i>Journal of Integrative Plant Biology</i> , 2020, 62, 1817-1822.	8.5	18
65	Effects of hygromycin on cotton cultures and its application in Agrobacterium-mediated cotton transformation. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2007, 43, 111-118.	2.1	16
66	BICELLULAR POLLEN 1 is a modulator of DNA replication and pollen development in Arabidopsis. <i>New Phytologist</i> , 2019, 222, 588-603.	7.3	15
67	The Arabidopsis TRM61/TRM6 complex is a bona fide tRNA N1-methyladenosine methyltransferase. <i>Journal of Experimental Botany</i> , 2020, 71, 3024-3036.	4.8	15
68	Nucleolar histone deacetylases HDT1, HDT2, and HDT3 regulate plant reproductive development. <i>Journal of Genetics and Genomics</i> , 2022, 49, 30-39.	3.9	14
69	Ligands Switch Model for Pollen-Tube Integrity and Burst. <i>Trends in Plant Science</i> , 2018, 23, 369-372.	8.8	13
70	Quantitative proteomics reveals key pathways in the symbiotic interface and the likely extracellular property of soybean symbiosome. <i>Journal of Genetics and Genomics</i> , 2023, 50, 7-19.	3.9	13
71	Pentatricopeptide repeat protein MID1 modulates nad2 intron 1 splicing and Arabidopsis development. <i>Scientific Reports</i> , 2020, 10, 2008.	3.3	12
72	Central Cell in Flowering Plants: Specification, Signaling, and Evolution. <i>Frontiers in Plant Science</i> , 2020, 11, 590307.	3.6	11

#	ARTICLE	IF	CITATIONS
73	Receptor-like kinases take center stage in plant biology. <i>Science China Life Sciences</i> , 2016, 59, 863-866.	4.9	10
74	Transcriptional repression specifies the central cell for double fertilization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6231-6236.	7.1	10
75	Emerging role of ER quality control in plant cell signal perception. <i>Protein and Cell</i> , 2012, 3, 10-16.	11.0	9
76	Transmission Electron Microscopy (TEM) to Study Histology of Pollen and Pollen Tubes. <i>Methods in Molecular Biology</i> , 2017, 1669, 181-189.	0.9	7
77	Special issue on plant reproduction research in Asia. <i>Plant Reproduction</i> , 2018, 31, 1-2.	2.2	6
78	Why are ATP-driven microtubule minus-end directed motors critical to plants? An overview of plant multifunctional kinesins. <i>Functional Plant Biology</i> , 2020, 47, 524.	2.1	5
79	The poly(A) polymerase PAPS1 mediates pollen maturation by regulating sperm cell differentiation in plants. <i>Plant Direct</i> , 2022, 6, e397.	1.9	5
80	POD1-SUN-CRT3 chaperone complex guards the ER sorting of LRR receptor kinases in Arabidopsis. <i>Nature Communications</i> , 2022, 13, 2703.	12.8	5
81	Novel Nuclear Protein ALC-INTERACTING PROTEIN1 is Expressed in Vascular and Mesocarp Cells in Arabidopsis. <i>Journal of Integrative Plant Biology</i> , 2008, 50, 918-927.	8.5	4
82	Isolation of Embryo-Specific Mutants in Arabidopsis. <i>Methods in Molecular Biology</i> , 2008, 427, 101-109.	0.9	4
83	Patterning the embryo in higher plants: Emerging pathways and challenges. <i>Frontiers in Biology</i> , 2011, 6, 3-11.	0.7	4
84	Analysis of Peroxisome Biogenesis in Pollen by Confocal Microscopy and Transmission Electron Microscopy. <i>Methods in Molecular Biology</i> , 2017, 1669, 173-180.	0.9	4
85	Isolation of Embryo-Specific Mutants in Arabidopsis. <i>Methods in Molecular Biology</i> , 2008, 427, 91-100.	0.9	3
86	Transgenic Crops: An Option for Future Agriculture. <i>Journal of Integrative Plant Biology</i> , 2011, 53, 510-511.	8.5	1
87	LOT regulates TGN biogenesis and Golgi structure in plants. <i>Plant Signaling and Behavior</i> , 2019, 14, e1573100.	2.4	1